

Warren M Zapol

List of Publications by Year in descending order

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87
papers

6,357
citations

94433

37
h-index

66911

78
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89
all docs

89
docs citations

89
times ranked

5083
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhaled Nitric Oxide for the Adult Respiratory Distress Syndrome. <i>New England Journal of Medicine</i> , 1993, 328, 399-405.	27.0	1,775
2	Inhaled Nitric Oxide and Persistent Pulmonary Hypertension of the Newborn. <i>New England Journal of Medicine</i> , 1997, 336, 605-610.	27.0	756
3	Hypoxia as a therapy for mitochondrial disease. <i>Science</i> , 2016, 352, 54-61.	12.6	339
4	Hemodynamic effects of inhaled nitric oxide in heart failure. <i>Journal of the American College of Cardiology</i> , 1994, 24, 982-988.	2.8	204
5	Hemodynamic Effects of Sildenafil in Patients With Congestive Heart Failure and Pulmonary Hypertension. <i>Chest</i> , 2005, 127, 1647-1653.	0.8	204
6	Inhibition of Bone Morphogenetic Protein Signaling Reduces Vascular Calcification and Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 613-622.	2.4	188
7	Inhaled nitric oxide decreases infarction size and improves left ventricular function in a murine model of myocardial ischemia-reperfusion injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H379-H384.	3.2	134
8	Inhaled NO as a therapeutic agent. <i>Cardiovascular Research</i> , 2007, 75, 339-348.	3.8	132
9	Hypoxia treatment reverses neurodegenerative disease in a mouse model of Leigh syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4241-E4250.	7.1	117
10	Inhaled Nitric Oxide Enables Artificial Blood Transfusion Without Hypertension. <i>Circulation</i> , 2008, 117, 1982-1990.	1.6	114
11	Continuous Nitric Oxide Inhalation Reduces Pulmonary Arterial Structural Changes, Right Ventricular Hypertrophy, and Growth Retardation in the Hypoxic Newborn Rat. <i>Circulation Research</i> , 1995, 76, 215-222.	4.5	102
12	Nitric Oxide Decreases Acute Kidney Injury and Stage 3 Chronic Kidney Disease after Cardiac Surgery. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 1279-1287.	5.6	99
13	Brief Periods of Nitric Oxide Inhalation Protect against Myocardial Ischemia-“Reperfusion Injury. <i>Anesthesiology</i> , 2008, 109, 675-682.	2.5	94
14	Effects of Targeted Neuronal Nitric Oxide Synthase Gene Disruption and Nitro sup G -L-Arginine Methylester on the Threshold for Isoflurane Anesthesia. <i>Anesthesiology</i> , 1995, 83, 101-108..	2.5	93
15	HDAC9 is implicated in atherosclerotic aortic calcification and affects vascular smooth muscle cell phenotype. <i>Nature Genetics</i> , 2019, 51, 1580-1587.	21.4	92
16	An engineered enzyme that targets circulating lactate to alleviate intracellular NADH:NAD+ imbalance. <i>Nature Biotechnology</i> , 2020, 38, 309-313.	17.5	86
17	Leigh Syndrome Mouse Model Can Be Rescued by Interventions that Normalize Brain Hyperoxia, but Not HIF Activation. <i>Cell Metabolism</i> , 2019, 30, 824-832.e3.	16.2	83
18	Endothelial Dysfunction Enhances Vasoconstriction Due to Scavenging of Nitric Oxide by a Hemoglobin-based Oxygen Carrier. <i>Anesthesiology</i> , 2010, 112, 586-594.	2.5	83

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19	Hypoxia Rescues Frataxin Loss by Restoring Iron Sulfur Cluster Biogenesis. <i>Cell</i> , 2019, 177, 1507-1521.e16.	28.9	80
20	Hypoxic pulmonary blood flow redistribution and arterial oxygenation in endotoxin-challenged NOS2-deficient mice. <i>Journal of Clinical Investigation</i> , 1999, 104, 1421-1429.	8.2	72
21	Inhaled nitric oxide. <i>British Journal of Pharmacology</i> , 2019, 176, 246-255.	5.4	70
22	Determination of Right Ventricular Structure and Function in Normoxic and Hypoxic Mice. <i>Circulation</i> , 1998, 98, 1015-1021.	1.6	68
23	Inhaled Nitric Oxide Reduces Endothelial Activation and Parasite Accumulation in the Brain, and Enhances Survival in Experimental Cerebral Malaria. <i>PLoS ONE</i> , 2011, 6, e27714.	2.5	65
24	Comparison of the Effects of Nitric Oxide, Nitroprusside, and Nifedipine on Hemodynamics and Right Ventricular Contractility in Patients With Chronic Pulmonary Hypertension. <i>Chest</i> , 2001, 119, 128-136.	0.8	64
25	Prevention of the Pulmonary Vasoconstrictor Effects of HBOC-201 in Awake Lambs by Continuously Breathing Nitric Oxide. <i>Anesthesiology</i> , 2009, 110, 113-122.	2.5	64
26	Autologous Transfusion of Stored Red Blood Cells Increases Pulmonary Artery Pressure. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 190, 800-807.	5.6	63
27	Haptoglobin or Hemopexin Therapy Prevents Acute Adverse Effects of Resuscitation After Prolonged Storage of Red Cells. <i>Circulation</i> , 2016, 134, 945-960.	1.6	61
28	Pulmonary Hypertension in Lambs Transfused with Stored Blood Is Prevented by Breathing Nitric Oxide. <i>Anesthesiology</i> , 2012, 116, 637-647.	2.5	58
29	Airway stem cells sense hypoxia and differentiate into protective solitary neuroendocrine cells. <i>Science</i> , 2021, 371, 52-57.	12.6	52
30	Producing nitric oxide by pulsed electrical discharge in air for portable inhalation therapy. <i>Science Translational Medicine</i> , 2015, 7, 294ra107.	12.4	49
31	Cytosolic phospholipase A2 in hypoxic pulmonary vasoconstriction. <i>Journal of Clinical Investigation</i> , 2002, 109, 1493-1500.	8.2	48
32	Identification of a Small Molecule that Increases Hemoglobin Oxygen Affinity and Reduces SS Erythrocyte Sickling. <i>ACS Chemical Biology</i> , 2014, 9, 2318-2325.	3.4	44
33	Attenuation of Hypoxic Pulmonary Vasoconstriction by Endotoxemia Requires 5-Lipoxygenase in Mice. <i>Circulation Research</i> , 2001, 88, 832-838.	4.5	43
34	Pulmonary vasodilation by nitric oxide gas and prodrug aerosols in acute pulmonary hypertension. <i>Journal of Applied Physiology</i> , 1998, 84, 435-441.	2.5	41
35	Diabetes augments and inhaled nitric oxide prevents the adverse hemodynamic effects of transfusing syngeneic stored blood in mice. <i>Transfusion</i> , 2012, 52, 1410-1422.	1.6	41
36	Inhaled high dose nitric oxide is a safe and effective respiratory treatment in spontaneous breathing hospitalized patients with COVID-19 pneumonia. <i>Nitric Oxide - Biology and Chemistry</i> , 2021, 116, 7-13.	2.7	40

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37	Hemoglobin-Based Red Blood Cell Substitutes and Nitric Oxide. <i>Trends in Cardiovascular Medicine</i> , 2009, 19, 103-107.	4.9	38
38	Nitric oxide synthase 3 contributes to ventilator-induced lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010, 299, L150-L159.	2.9	38
39	Antimicrobial effects of nitric oxide in murine models of <i>Klebsiella pneumoniae</i> . <i>Redox Biology</i> , 2021, 39, 101826.	9.0	32
40	Inhaled Nitric Oxide Attenuates the Adverse Effects of Transfusing Stored Syngeneic Erythrocytes in Mice with Endothelial Dysfunction after Hemorrhagic Shock. <i>Anesthesiology</i> , 2012, 117, 1190-1202.	2.5	32
41	Cytosolic phospholipase A2 in hypoxic pulmonary vasoconstriction. <i>Journal of Clinical Investigation</i> , 2002, 109, 1493-1500.	8.2	29
42	Adverse Effects of Hemorrhagic Shock Resuscitation With Stored Blood Are Ameliorated by Inhaled Nitric Oxide in Lambs*. <i>Critical Care Medicine</i> , 2013, 41, 2492-2501.	0.9	27
43	Endothelial dysfunction inhibits the ability of haptoglobin to prevent hemoglobin-induced hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H1120-H1127.	3.2	27
44	Inhaled Nitric Oxide as an Adjunctive Treatment for Cerebral Malaria in Children: A Phase II Randomized Open-Label Clinical Trial. <i>Open Forum Infectious Diseases</i> , 2015, 2, ofv111.	0.9	26
45	Pulmonary and Systemic Vascular Resistances After Cardiopulmonary Bypass: Role of Hemolysis. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2017, 31, 505-515.	1.3	25
46	Soluble guanylate cyclase-1 is required for the cardioprotective effects of inhaled nitric oxide. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1477-H1483.	3.2	24
47	Pharmacological preconditioning with inhaled nitric oxide (NO): Organ-specific differences in the lifetime of blood and tissue NO metabolites. <i>Nitric Oxide - Biology and Chemistry</i> , 2018, 80, 52-60.	2.7	21
48	Protocol of a randomised controlled trial in cardiac surgical patients with endothelial dysfunction aimed to prevent postoperative acute kidney injury by administering nitric oxide gas. <i>BMJ Open</i> , 2019, 9, e026848.	1.9	21
49	Deletion of the Murine Cytochrome P450 Cyp2j Locus by Fused BAC-Mediated Recombination Identifies a Role for Cyp2j in the Pulmonary Vascular Response to Hypoxia. <i>PLoS Genetics</i> , 2013, 9, e1003950.	3.5	20
50	Pulmonary Phototherapy for Treating Carbon Monoxide Poisoning. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015, 192, 1191-1199.	5.6	19
51	A Triazole Disulfide Compound Increases the Affinity of Hemoglobin for Oxygen and Reduces the Sickling of Human Sickle Cells. <i>Molecular Pharmaceutics</i> , 2018, 15, 1954-1963.	4.6	18
52	Activation of Toll-like receptor 2 impairs hypoxic pulmonary vasoconstriction in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2008, 294, L300-L308.	2.9	17
53	Electric Plasma-generated Nitric Oxide: Hemodynamic Effects in Patients with Pulmonary Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 194, 1168-1170.	5.6	16
54	Hypoxia ameliorates brain hyperoxia and NAD ⁺ deficiency in a murine model of Leigh syndrome. <i>Molecular Genetics and Metabolism</i> , 2021, 133, 83-93.	1.1	16

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55	Soluble epoxide hydrolase deficiency or inhibition enhances murine hypoxic pulmonary vasoconstriction after lipopolysaccharide challenge. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L1213-L1221.	2.9	15
56	Detection and removal of impurities in nitric oxide generated from air by pulsed electrical discharge. <i>Nitric Oxide - Biology and Chemistry</i> , 2016, 60, 16-23.	2.7	13
57	Development of a portable mini-generator to safely produce nitric oxide for the treatment of infants with pulmonary hypertension. <i>Nitric Oxide - Biology and Chemistry</i> , 2018, 75, 70-76.	2.7	12
58	Phototherapy and extracorporeal membrane oxygenation facilitate removal of carbon monoxide in rats. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	12
59	Low guanylyl cyclase activity in Weddell seals: implications for peripheral vasoconstriction and perfusion of the brain during diving. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 316, R704-R715.	1.8	12
60	Nitric Oxide Story. <i>Anesthesiology</i> , 2019, 130, 435-440.	2.5	12
61	Cysteinyl Leukotrienes Impair Hypoxic Pulmonary Vasoconstriction in Endotoxemic Mice. <i>Anesthesiology</i> , 2011, 115, 804-811.	2.5	12
62	Pulmonary Hypertension after Prolonged Hypoxic Exposure in Mice with a Congenital Deficiency of Cyp2j. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 52, 563-570.	2.9	11
63	Sensitivity to Sevoflurane anesthesia is decreased in mice with a congenital deletion of Guanylyl Cyclase-1 alpha. <i>BMC Anesthesiology</i> , 2017, 17, 76.	1.8	10
64	Matrix Gla Protein Levels Are Associated With Arterial Stiffness and Incident Heart Failure With Preserved Ejection Fraction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2022, 42, ATVBHA121316664.	2.4	10
65	Pulmonary Phototherapy to Treat Carbon Monoxide Poisoning in Rats. <i>Shock</i> , 2017, 47, 735-742.	2.1	8
66	Veno-venous extracorporeal blood phototherapy increases the rate of carbon monoxide (CO) elimination in CO-poisoned pigs. <i>Lasers in Surgery and Medicine</i> , 2022, 54, 256-267.	2.1	8
67	Inhaled Pulmonary Vasodilators in Cardiac Surgery Patients. <i>Anesthesia and Analgesia</i> , 2017, 125, 375-377.	2.2	7
68	High-Dose Nitric Oxide From Pressurized Cylinders and Nitric Oxide Produced by an Electric Generator From Air. <i>Respiratory Care</i> , 2022, 67, 201-208.	1.6	7
69	The Antarctic Weddell seal genome reveals evidence of selection on cardiovascular phenotype and lipid handling. <i>Communications Biology</i> , 2022, 5, 140.	4.4	5
70	Inhaled Nitric Oxide—Current Practice and Future Potential Uses and Development. , 2017, , 339-353.		4
71	Pulmonary Delivery of Therapeutic and Diagnostic Gases. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2018, 31, 78-87.	1.4	4
72	Hyperbaric phototherapy augments blood carbon monoxide removal. <i>Lasers in Surgery and Medicine</i> , 2022, 54, 426-432.	2.1	4

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73	Recombinant gene expression in pulmonary vascular endothelial cells: polarized secretion in vivo. FASEB Journal, 1990, 4, 2665-2670.	0.5	3
74	Electrically generated nitric oxide from air: a safe and economical treatment for pulmonary hypertension. Intensive Care Medicine, 2019, 45, 1612-1614.	8.2	3
75	Cross-linked hemoglobin bis-tetramers from bioorthogonal coupling do not induce vasoconstriction in the circulation. Transfusion, 2019, 59, 359-370.	1.6	3
76	Impaired hypoxic pulmonary vasoconstriction in a mouse model of Leigh syndrome. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 316, L391-L399.	2.9	3
77	The Role of Nitric Oxide in Preventing Cardiopulmonary Bypass-associated Acute Kidney Injury. Journal of Cardiothoracic and Vascular Anesthesia, 2020, 34, 850-851.	1.3	3
78	High-Throughput Assay to Screen Small Molecules for Their Ability to Prevent Sickling of Red Blood Cells. ACS Omega, 2022, 7, 14009-14016.	3.5	3
79	Hemoglobin infusion does not alter murine pulmonary vascular tone. Nitric Oxide - Biology and Chemistry, 2013, 30, 1-8.	2.7	2
80	Intratracheal injection of nitric oxide, generated from air by pulsed electrical discharge, for the treatment of pulmonary hypertension in awake ambulatory lambs. Nitric Oxide - Biology and Chemistry, 2020, 97, 11-15.	2.7	2
81	Inhibition of Soluble Epoxide Hydrolase Augments Hypoxic Pulmonary Vasoconstriction and Improves Gas Exchange in Mice. FASEB Journal, 2013, 27, 1140.1.	0.5	2
82	Clifford J. Woolf, M.B., B.Ch., Ph.D.. Anesthesiology, 2004, 101, 820-823.	2.5	1
83	Life at the Frontier. Anesthesiology, 2011, 114, 771-781.	2.5	1
84	Nitric oxide breathing prevents vasoconstriction after tetrameric hemoglobin infusion. FASEB Journal, 2007, 21, A525.	0.5	0
85	Endothelial Deficiency Augments and Inhaled Nitric Oxide Prevents the Adverse Hemodynamic Effects of Transfusing Syngeneic Stored Blood in Mice. Blood, 2011, 118, 38-38.	1.4	0
86	Inhaled nitric oxide attenuates the adverse effects of transfusing stored red blood cells in mice with endothelial dysfunction after hemorrhagic shock. FASEB Journal, 2013, 27, 920.3.	0.5	0
87	A vision for International Polar year 2007-2008. Alaska Medicine, 2007, 49, 8-10.	0.1	0